0590
0107

#2

OIPE

RAW SEQUENCE LISTING DATE: 01/26/2002
PATENT APPLICATION: US/09/987,601 TIME: 14:01:09

Input Set : N:\Crf3\RULE60\09987601.raw
Output Set: N:\CRF3\01252002\I987601.raw


```
      1 <110> APPLICANT: MOULLIER, Phillippe
      2       DANOS, Olivier
      3       HEARD, Jean-Michel
      4       FERRY, Nicholas
      5 <120> TITLE OF INVENTION: BIOCOMPATIBLE IMPLANT FOR THE EXPRESSION AND IN VIVO
      6       SECRETION OF A THERAPEUTIC SUBSTANCE
      7 <130> FILE REFERENCE: 0660-0145-0DIV
      8 <140> CURRENT APPLICATION NUMBER: US/09/987,601
      9 <141> CURRENT FILING DATE: 2001-11-15
     10 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/225,509
W--> 11 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-06
     12 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/523,814
W--> 13 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1996-01-19
     14 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: FR 93/04700
W--> 15 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1993-04-21
     16 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: FR 93/09185
W--> 17 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1993-07-26
     18 <160> NUMBER OF SEQ ID NOS: 1
     19 <170> SOFTWARE: PatentIn Ver. 2.1
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 8388
     23 <212> TYPE: DNA
     24 <213> ORGANISM: mus musculus, Mo-MuLV, and other
     25 <400> SEQUENCE: 1
     26       tgaaagaccc cacctgtagg tttggcaagc tagcttaagt aacgccattt tgcaaggcat 60
     27       ggaaaaatac ataactgaga atagagaagt tcagatcaag gtcaggaaca gatggaacag 120
     28       ctgaatatgg gccaaacagg atatctgtgg taagcagttc ctgccccggc tcagggccaa 180
     29       gaacagatgg aacagctgaa tatgggccaa acaggatatc tgtggtaagc agttcctgcc 240
     30       ccggctcagg gccaagaaca gatggtcccc agatgcggtc cagccctcag cagtttctag 300
     31       agaaccatca gatgtttcca gggtgcccca aggacctgaa atgaccctgt gccttatttg 360
     32       aactaaccaa tcagttcgct tctcgcttct gttcgcgcgc ttctgctccc cgagctcaat 420
     33       aaaagagccc acaaccctc actcggggcg ccagtcctcc gattgactga gtcgcccggg 480
     34       tacccgtgta tccaataaac cctcttgcag ttgcatccga cttgtggtct cgctgttcct 540
     35       tgggagggtc tcctctgagt gattgactac ccgtcagcgg gggtctttca tttgggggct 600
     36       cgtccgggat cgggagaccc ctgcccaggg accaccgacc caccaccggg aggtaagctg 660
     37       gccagcaact tatctgtgtc tgtccgattg tctagtgtct atgactgatt ttatgcgcct 720
     38       gcgtcggtac tagttagcta actagctctg tatctggcgg acccgtggtg gaactgacga 780
     39       gttcggaaca cccggccgca accctgggag acgtcccagg gacttcgggg gccgtttttg 840
     40       tggcccgacc tgagtccaaa aatcccgatc gttttggact ctttggtgca ccccccttag 900
     41       aggagggata tgtggttctg gtaggagacg agaacctaaa acagttcccg cctccgtctg 960
     42       aatttttgct ttcggtttgg gaccgaagcc gcgccgcgcg tcttgtctgc tgcagcatcg 1020
     43       ttctgtgttg tctctgtctg actgtgtttc tgtatttgtc tgagaatatg ggcccgcggg 1080
     44       ccagactgtt accactccct taagtttgac cttaggtcac tggaaagatg tcgagcggat 1140
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/987,601

DATE: 01/26/2002
TIME: 14:01:09

Input Set : N:\Crf3\RULE60\09987601.raw
Output Set: N:\CRF3\01252002\I987601.raw

```
45  cgctcacaac cagtcggtag atgtcaagaa gagacgttgg gttaccttct gctctgcaga 1200
46  atggccaacc tttaacgtcg gatggccgcg agacggcacc tttaaccgag acctcatcac 1260
47  ccaggttaag atcaaggtct tttcacctgg cccgcatgga cacccagacc aggtcccctа 1320
48  catcgtgacc tgggaagcct tggcttttga ccccctccc tgggtcaagc cctttgtaca 1380
49  ccctaagcct ccgcctcctc ttcctccatc cgccccgtct ctccccctg aacctcctcg 1440
50  ttcgaccccg cctcgatcct ccctttatcc agccctcact ccttctctag gcgccaaacc 1500
51  taaacctcaa gttctttctg acagtggggg gccgctcatc gacctactta cagaagcacc 1560
52  cccgccttat agggacccaa gaccaccccc ttccgacagg gacggaaatg gtggagaagc 1620
53  gacccctgcg ggagaggcac cggacccctc cccaatggca tctcgcctac gtgggagacg 1680
54  ggagccccct gtggccgact ccactacctc gcaggcattc cccctccgcg caggaggaaa 1740
55  cggacagctt caatactggc cgttctcctc ttctgacctt tacaactgga aaaataataa 1800
56  cccttctttt tctgaagatc caggtaaact gacagctctg atcgagtctg ttctcatcac 1860
57  ccatcagccc acctgggacg actgtcagca gctgttgggg actctgctga ccggagaaga 1920
58  aaaacaacgg gtgctcttag aggctagaaa ggcggtgcgg ggcgatgatg ggcgccccac 1980
59  tcaactgccc aatgaagtcg atgccgcttt tcccctcgag aattctaccg ggtaggggag 2040
60  gcgcttttcc caaggcagtc tggagcatgc gctttagcag ccccgctggc acttggcgct 2100
61  acacaagtgg cctctggcct cgcacacatt ccacatccac cggtagcgcc aaccggctcc 2160
62  gttctttggt ggccccttcg cgccaccttc tactcctccc ctagtcagga agttcccccc 2220
63  gccccgcagc tcgcgtcgtg caggacgtga caaatggaag tagcacgtct cactagtctc 2280
64  gtgcagatgg acagcaccgc tgagcaatgg aagcgggtag gcctttgggg cagcggccaa 2340
65  tagcagcttt gctccttcgc tttctgggct cagaggctgg gaaggggtgg gtccgggggc 2400
66  gggctcaggg gcgggctcag gggcgggcgc ggcgcgaagg tcctccggag cccggcattc 2460
67  tgcacgcttc aaaagcgcac gtctgccgcg ctgttctcct cttcttcatc tccgggcctt 2520
68  tcgaccggat ccggcgatta gtccaatttg ttaaagacag gatatcagtg gtccaggctc 2580
69  tagttttgac tcaacaatat caccagctga agcctatага gtacgagcca tagataaaat 2640
70  aaaagatttt atttagtctc cagaaaaagg ggggaatgaa agaccccacc tgtaggtttg 2700
71  gcaagctagc ttaagtaacg ccattttgca aggcatggaa aaatacataa ctgagaatag 2760
72  agaagttcag atcaaggtca ggaacagatg gaacagggtc gaccctagag aaccatcaga 2820
73  tgtttccagg gtgccccaag gacctgaaat gaccctgtgc cttatttgaa ctaaccaatc 2880
74  agttcgcttc tcgcttctgt tcgcgcgctt ctgctcccg agctcaataa aagagcccac 2940
75  aacccctcac tcggggcgcc agtcctccga ttgactgagt cgcccgggta cccgtgtatc 3000
76  caataaaccc tcttgcagtt gcatccgact tgtggtctcg ctgttccttg ggagggtctc 3060
77  ctctgagtga ttgactaccc gtcagcgggg gtctttcatt tatgtgtcat aaatatttct 3120
78  aattttaaga tagtatctcc attggctttc tacttttttt ttttatttct ttttgtcctc 3180
79  tgtctccatg tgttgttgtt gttgtttgtt tgtttgtttg ttggttggtt ggttaatttt 3240
80  tttttaaaga tcctacacta tagttcaagc tagactatta gctactctgt aacccagggt 3300
81  gaccttgaag tcatgggtag cctgctgttt tagccttccc acatctaaga ttacaggtat 3360
82  gagctatcat tttggtatat tgattgattg attgattgat gtgtgtgtgt gtgattgtgt 3420
83  ttgtgtgtgt gattgtgtat atgtgtgtat ggttgtgtgt gattgtgtgt atgtatgttt 3480
84  gtgtgtgatt gtgtgtgtgt gattgtgcat gtgtgtgtgt gatgtgttag tgtatgattg 3540
85  tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgttgt gtatatatat 3600
86  ttatggtagt gagaggcaac gctccggccc aggcgtcagg ttggtttttg agacagagtc 3660
87  tttcacttag cttgaattct tgaagacgaa agggcctcgt gatacgccta tttttatagg 3720
88  ttaatgtcat gataataatg gtttcttaga cgtcaggtgg cacttttcgg ggaaatgtgc 3780
89  gcggaacccc tatttgttta tttttctaaa tacattcaaa tatgtatccg ctcatgagac 3840
90  aataaccctg ataaatgctt caataatatt gaaaaaggaa gagtatgagt attcaacatt 3900
91  tccgtgtcgc ccttattccc ttttttcggg catttgcct tcctgttttt gctcacccag 3960
92  aaacgctggt gaaagtaaaa gatgctgaag atcagttggg tgcacgagtg ggttacatcg 4020
93  aactggatct caacagcggt aagatccttg agagttttcg ccccgaagaa cgttttccaa 4080
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/987,601

DATE: 01/26/2002
TIME: 14:01:09

Input Set : N:\Crf3\RULE60\09987601.raw
Output Set: N:\CRF3\01252002\I987601.raw

```
 94  tgatgagcac ttttaaagtt ctgctatgtg gcgcggtatt atcccgtgtt gacgccgggc 4140
 95  aagagcaact cggtcgccgc atacactatt ctcagaatga cttggttgag tactcaccag 4200
 96  tcacagaaaa gcatcttacg gatggcatga cagtaagaga attatgcagt gctgccataa 4260
 97  ccatgagtga taacactgcg gccaacttac ttctgacaac gatcggagga ccgaaggagc 4320
 98  taaccgcttt tttgcacaac atgggggatc atgtaactcg ccttgatcgt tgggaaccgg 4380
 99  agctgaatga agccatacca aacgacgagc gtgacaccac gatgcctgca gcaatggcaa 4440
100  caacgttgcg caaactatta actggcgaac tacttactct agcttcccgg caacaattaa 4500
101  tagactggat ggaggcggat aaagttgcag gaccacttct gcgctcggcc cttccggctg 4560
102  gctggtttat tgctgataaa tctggagccg gtgagcgtgg gtctcgcggt atcattgcag 4620
103  cactggggcc agatggtaag ccctcccgta tcgtagttat ctacacgacg gggagtcagg 4680
104  caactatgga tgaacgaaat agacagatcg ctgagataag tgcctcactg attaagcatt 4740
105  ggtaactgtc agaccaagtt tactcatata tactttagat tgatttaaaa cttcatttt 4800
106  aatttaaaag gatctaggtg aagatccttt ttgataatct catgaccaaa atcccttaac 4860
107  gtgagttttc gttccactga gcgtcagacc ccgtagaaaa gatcaaagga tcttcttgag 4920
108  atccttttt tctgcgcgta atctgctgct tgcaaacaaa aaaaccaccg ctaccagcgg 4980
109  tggtttgttt gccggatcaa gagctaccaa ctctttttcc gaaggtaact ggcttcagca 5040
110  gagcgcagat accaaatact gtccttctag tgtagccgta gttaggccac cacttcaaga 5100
111  actctgtagc accgcctaca tacctcgctc tgctaatcct gttaccagtg gctgctgcca 5160
112  gtggcgataa gtcgtgtctt accgggttgg actcaagacg atagttaccg gataaggcgc 5220
113  agcggtcggg ctgaacgggg ggttcgtgca cacagcccag cttggagcga acgacctaca 5280
114  ccgaactgag atacctacag cgtgagctat gagaaagcgc cacgcttccc gaagggagaa 5340
115  aggcggacag gtatccggta agcggcaggg tcggaacagg agagcgcacg agggagcttc 5400
116  caggggaaa cgcctggtat ctttatagtc ctgtcgggtt tcgccacctc tgacttgagc 5460
117  gtcgattttt gtgatgctcg tcaggggggc ggagcctatg gaaaaacgcc agcaacgcgg 5520
118  ccttttacg gttcctggcc ttttcgtggc cttttgctca catgttcttt cctgcgttat 5580
119  cccctgattc tgtggataac cgtattaccg cctttgagtg agctgatacc gctcgccgca 5640
120  gccgaacgac cgagcgcagc gagtcagtga gcgaggaagc ggaagagcgc ctgatgcggt 5700
121  attttctcct tacgcatctg tgcggtattt cacaccgcat atggtgcact ctcagtacaa 5760
122  tctgctctga tgccgcatag ttaagccagt atacactccg ctatcgctac gtgactgggt 5820
123  catggctgcg ccccgacacc cgccaacacc cgctgacgcg ccctgacggg cttgtctgct 5880
124  cccggcatcc gcttacagac aagctgtgac cgtctccggg agctgcatgt gtcagaggtt 5940
125  ttcaccgtca tcaccgaaac gcgcgaggca gctgcggtaa agctcatcag cgtggtcgtg 6000
126  aagcgattca cagatgtctg cctgttcatc cgcgtccagc tcgttgagtt tctccagaag 6060
127  cgttaatgtc tggcttctga taaagcgggc catgttaagg gcggttttt cctgtttggt 6120
128  cactgatgcc tccgtgtaag ggggatttct gttcatgggg gtaatgatac cgatgaaacg 6180
129  agagaggatg ctcacgatac gggttactga tgatgaacat gcccggttac tggaacgttg 6240
130  tgagggtaaa caactggcgg tatggatgcg gcgggaccag agaaaaatca ctcagggtca 6300
131  atgccagcgc ttcgttaata cagatgtagg tgttccacag ggtagccagc agcatcctgc 6360
132  gatgcagatc cggaacataa tggtgcaggg cgctgacttc cgcgtttcca gactttacga 6420
133  aacacggaaa ccgaagacca ttcatgttgt tgctcaggtc gcagacgttt tgcagcagca 6480
134  gtcgcttcac gttcgctcgc gtatcggtga ttcattctgc taaccagtaa ggcaaccccg 6540
135  ccagcctagc cgggtcctca acgacaggag cacgatcatg cgcacccgtg gccaggaccc 6600
136  aacgctgccc gagatgcgcc gcgtgcggct gctggagatg gcggacgcga tggatatgtt 6660
137  ctgccaaggg ttggtttgcg cattcacagt tctccgcaag aattgattgg ctccaattct 6720
138  tggagtggtg aatccgttag cgaggtgccg ccggcttcca ttcaggtcga ggtggcccgg 6780
139  ctccatgcac cgcgacgcaa cgcggggagg cagacaaggt atagggcggc gcctacaatc 6840
140  catgccaacc cgttccatgt gctcgccgag gcggcataaa tcgccgtgac gatcagcggt 6900
141  ccagtgatcg aagttaggct ggtaagagcc gcgagcgatc cttgaagctg tccctgatgg 6960
142  tcgtcatcta cctgcctgga cagcatggcc tgcaacgcgg gcatcccgat gccgccggaa 7020
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/987,601

DATE: 01/26/2002
TIME: 14:01:09

Input Set : N:\Crf3\RULE60\09987601.raw
Output Set: N:\CRF3\01252002\I987601.raw

```
143  gcgagaagaa tcataatggg gaaggccatc cagcctcgcg tcgcgaacgc cagcaagacg 7080
144  tagcccagcg cgtcggccgc catgccggcg ataatggcct gcttctcgcc gaaacgtttg 7140
145  gtggcgggac cagtgacgaa ggcttgagcg agggcgtgca agattccgaa taccgcaagc 7200
146  gacaggccga tcatcgtcgc gctccagcga aagcggtcct cgccgaaaat gacccagagc 7260
147  gctgccggca cctgtcctac gagttgcatg ataaagaaga cagtcataag tgcggcgacg 7320
148  atagtcatgc cccgcgccca ccggaaggag ctgactgggt tgaaggctct caagggcatc 7380
149  ggtcgacgct ctcccttatg cgactcctgc attaggaagc agcccagtag taggttgagg 7440
150  ccgtttgagca ccgccgccgc aaggaatggt gcatgcaagg agatggcgcc caacagtccc 7500
151  ccggccacgg ggcctgccac catacccacg ccgaaacaag cgctcatgag cccgaagtgg 7560
152  cgagcccgat cttccccatc ggtgatgtcg gcgatatagg cgccagcaac cgcacctgtg 7620
153  gcgccggtga tgccggccac gatgcgtccg gcgtagagcg ccacaggacg ggtgtggtcg 7680
154  ccatgatcgc gtagtcgata gtggctccaa gtagcgaagc gagcaggact gggcggcggc 7740
155  caaagcggtc ggacagtgct ccgagaacgg gtgcgcatag aaattgcatc aacgcatata 7800
156  gcgctagcag cacgccatag tgactggcga tgctgtcgga atggacgata tcccgcaaga 7860
157  ggcccggcag taccggcata accaagccta tgcctacagc atccagggtg acggtgccga 7920
158  ggatgacgat gagcgcattg ttagatttca tacacggtgc ctgactgcgt tagcaattta 7980
159  actgtgataa actaccgcat taaagctttg cttaggagtt tcctaataca tcccaaactc 8040
160  aaatatataa gcatttgact tgttctatgc cctaggggga ggggggaagc taagccagct 8100
161  ttttttaaca tttaaaatgt taattccatt ttaaatgcac agatgttttt atttcataag 8160
162  ggtttcaatg tgcatgaatg tcgcaatatc ctgttaccaa agctagtata aataaaaata 8220
163  gataaacgtg gaaattactt agagtttctg tcattaacgt ttccttcctc agttgacaac 8280
164  ataaatgcgc tgctgagaag ccagtttgca tctgtcagga tcaatttcca ttatgccagt 8340
165  catattaatt actagtcaat tagttgattt ttgacatata catgtgaa              8388
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/987,601

DATE: 01/26/2002
TIME: 14:01:10

Input Set : N:\Crf3\RULE60\09987601.raw
Output Set: N:\CRF3\01252002\I987601.raw

L:11 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:15 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD